### **BLAST**

# **Basic Local Alignment Search Tool**

•

Edit and Resubmit Save Search Strategies Formatting options Download

### Nucleotide Sequence (4347 letters)

SEQ ID NO: 1

Results for: Icl|31285 None(4347bp)

Your BLAST job specified more than one input sequence. This box lets you choose which input sequence to show BLAST results for.

#### **Query ID**

|cl|31285 |cl|31285

Description

None

Molecule type

nucleic acid

**Query Length** 

4347

#### **Database Name**

nr

#### Description

All GenBank+EMBL+DDBJ+PDB sequences (but no EST, STS, GSS,environmental samples or phase 0, 1 or 2 HTGS sequences)

### **Program**

BLASTN 2.2.22+ Citation

#### Reference

Zheng Zhang, Scott Schwartz, Lukas Wagner, and Webb Miller (2000), "A greedy algorithm for aligning DNA sequences", J Comput Biol 2000; 7(1-2):203-14.

Other reports: Search Summary [Taxonomy reports] [Distance tree of results]
Search Parameters

# Search parameter name Search parameter value

Program	blastn
Word size	28
Expect value	10
Hitlist size	100
Match/Mismatch scores	1,-2
Gapcosts	0,0
Low Complexity Filter	Yes
Filter string	L;m;
Genetic Code	1

Database

# Database parameter name Database parameter value

Posted date Feb 18, 2010 5:42 PM
Number of letters 30,229,719,529
Number of sequences 10,937,181
Entrez query none

Karlin-Altschul statistics

## **Params Ungapped Gapped**

Lambda	1.33271	1.28
K	0.620991	0.46
Н	1.12409	0.85

Results Statistics

## Results Statistics parameter name Results Statistics parameter value

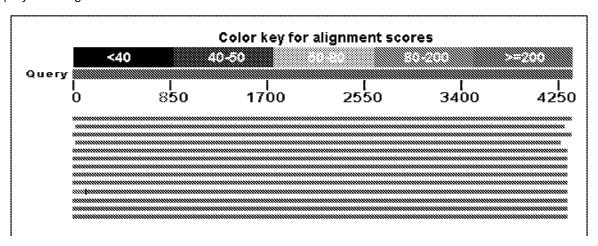
Length adjustment	35
Effective length of query	4312
Effective length of database	29846918194
Effective search space	128699911252528
Effective search space used	128699911252528

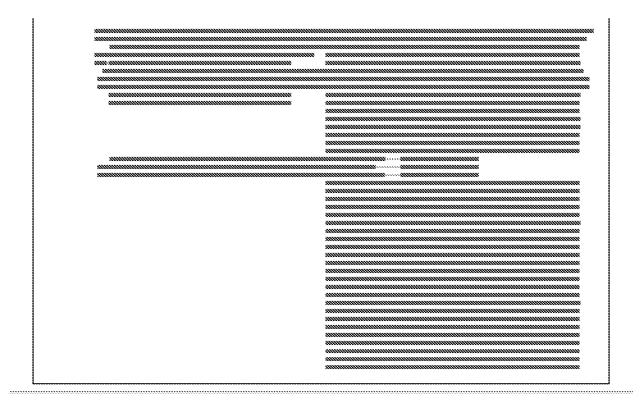
Graphic Summary

## Distribution of 107 Blast Hits on the Query Sequence

[?]

An overview of the database sequences aligned to the query sequence is shown. The score of each alignment is indicated by one of five different colors, which divides the range of scores into five groups. Multiple alignments on the same database sequence are connected by a striped line. Mousing over a hit sequence causes the definition and score to be shown in the window at the top, clicking on a hit sequence takes the user to the associated alignments. New: This graphic is an overview of database sequences aligned to the query sequence. Alignments are color-coded by score, within one of five score ranges. Multiple alignments on the same database sequence are connected by a dashed line. Mousing over an alignment shows the alignment definition and score in the box at the top. Clicking an alignment displays the alignment detail.





Descriptions

Legend for links to other resources: UniGene GEO Gene Structure Map Viewer

Sequences producing significant alignments:								
•	ders to sort columns) Adeno-associated virus 1, complete genome	6575	6575	998	0.0	94%	त्स	
DQ180604.1	Adeno-associated virus VR-195 Rep78	6312		97%	0.0	93%	<u> </u>	
-	(rep78) and capsid protein (cap) genes, complete cds							
AF028704.1	Adeno-associated virus 6, complete genome	6270	6270	99%	0.0	92%		
DQ180605.1	Adeno-associated virus VR-355 Rep78 (rep78) and capsid protein (cap) genes, complete cds	6139	6139	97%	0.0	92%		
AF043303.1	Adeno-associated virus 2, complete genome	5142	5142	998	0.0	888	G	
J01901.1		5105	5105	99%	0.0	88%	G	
AY695374.1	Adeno-associated virus isolate hu.T71 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	5005	5005	99%	0.0	87%		
AY695372.1	Adeno-associated virus isolate hu.T40 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	5003	5003	998	0.0	87%		
AY695371.1	Adeno-associated virus isolate hu.T32 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	4937	4937	99%	0.0	87%		
AF369963.1	Cloning vector pAAV-RC, complete sequence	4922	5100	99%	0.0	93%		
AY695376.1	Adeno-associated virus isolate hu.S17 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	4911	4911	998	0.0	87%		
AY695375.1	Adeno-associated virus isolate hu.T88 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	4859	4859	99%	0.0	87%		
AY695373.1	Adeno-associated virus isolate hu.T70 Rep78 protein and capsid protein VP1 (cap) genes, complete cds	4837	4837	99%	0.0	87%		
AF513851.1	Adeno-associated virus 7 nonstructural protein and capsid protein genes, complete cds	4595	4595	998	0.0	86%		
AF513852.1	Adeno-associated virus 8 nonstructural protein and capsid protein genes, complete cds	4346	4346	98%	0.0	85%	Second .	
AY631965.1	Adeno-associated virus 10 nonstructural protein and capsid protein genes, complete cds	4152	4152	948	0.0	85%		
EU368918.1	Adeno-associated virus isolate hu.48R3 capsid protein VP1 gene, partial cds	4050	4050	50%	0.0	99%		
AY530611.1	Adeno-associated virus isolate hu.48 capsid protein VP1 (cap) gene, complete cds	4039	4039	50%	0.0	998		
EU285562.1	Adeno-associated virus 13 nonstructural protein and capsid protein genes, complete cds		3903					
AF028705.1	Adeno-associated virus 3B, complete genome	3869	3869	98%	0.0	83%		
U48704.1	Adeno-associated virus 3 nonstructural protein and capsid protein genes, complete cds, and complete genome	3829	3829	98%	0.0	83%	C	
AY530606.1	Adeno-associated virus isolate hu.43 capsid protein VP1 (cap) gene, complete	3825	3825	50%	0.0	97%		

	cds						
EU368917.1	Adeno-associated virus isolate hu.44r3 capsid protein VP1 gene, partial cds	3773	3773	50%	0.0	97%	
EU368916.1	Adeno-associated virus isolate hu.44R2 capsid protein VP1 gene, partial cds	3773	3773	50%	0.0	97%	
AY530607.1	Adeno-associated virus isolate hu.44 capsid protein VP1 (cap) gene, complete cds	3768	3768	50%	0.0	97%	
AY530609.1	Adeno-associated virus isolate hu.46 capsid protein VP1 (cap) gene, complete cds	3735	3735	50%	0.0	97%	
EU368911.1	Adeno-associated virus isolate AAV6R2 capsid protein VP1 gene, partial cds	3729	3729	50%	0.0	97%	***************************************
EU368910.1	Adeno-associated virus isolate AAV6.2 capsid protein VP1 gene, partial cds	3723	3723	50%	0.0	97%	
EU368909.1	Adeno-associated virus isolate AAV6.1 capsid protein VP1 gene, partial cds	3723	3723	50%	0.0	97%	•••••
J01902.1	adeno-associated virus 2 left half 45% of genome	3349	3349	44%	0.0	98%	***************************************
EU048698.1	Shuttle vector phcAd.DYS-FL, complete sequence	2918	3123	39%	0.0	100%	
AY631966.1	Adeno-associated virus 11 nonstructural protein and capsid protein genes, complete cds	2865	3171	70%	0.0	88%	
GQ380656.1	Expression shuttle vector pGAPDH.Rep68, complete sequence	2835	2835	36%	0.0	98%	
GQ380657.1	Expression shuttle vector pGAPDH.Rep68 (Y156F), complete sequence	2830	2830	36%	0.0	98%	
DQ813647.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds		2740	71%	0.0	85%	
DQ813647.1 U89790.1	Adeno-associated virus 12 Rep78 and VP1			71% 73%	0.0	85% 84%	
	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds	2442		73%			O
U89790.1 AY530567.1 EU368920.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds	2442 2307 2257	2827 2307 2257	73% 50% 50%	0.0	84%	
U89790.1 AY530567.1 EU368920.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds	2442 2307 2257 2257	2827 2307 2257 2257	73% 50% 50%	0.0	84% 85% 85%	C
U89790.1 AY530567.1 EU368920.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds	2442 2307 2257 2257	2827 2307 2257 2257	73% 50% 50%	0.0	84% 85% 85%	<b>E</b>
U89790.1 AY530567.1 EU368920.1 AY243000.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds	2442 2307 2257 2257 2252	2827 2307 2257 2257 2252	73% 50% 50% 50%	0.0	84% 85% 85%	G
U89790.1 AY530567.1 EU368920.1 AY243000.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds	2442 2307 2257 2257 2252	2827 2307 2257 2257 2252	73% 50% 50% 50%	0.0	84% 85% 85%	
U89790.1 AY530567.1 EU368920.1 AY243000.1 AY242999.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.8 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.8 capsid protein (VP1) gene, complete cds  Adeno-associated virus isolate rh.8R capsid protein VP1 gene, partial cds	2442 2307 2257 2257 2252 2246	2827 2307 2257 2257 2252	73% 50% 50% 50%	0.0	84% 85% 85% 85%	G
U89790.1 AY530567.1 EU368920.1 AY243000.1 AY242999.1 AY242999.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.8 capsid protein (VP1) gene, complete cds  Adeno-associated virus isolate rh.8R	2442 2307 2257 2257 2252 2246	2827 2307 2257 2257 2252 2246	73% 50% 50% 50%	0.0 0.0 0.0 0.0	84% 85% 85% 85% 85%	
U89790.1 AY530567.1  EU368920.1  AY243000.1  AY242999.1  AY242998.1  AY242997.1	Adeno-associated virus 12 Rep78 and VP1 genes, complete cds  Adeno-associated virus 4, complete genome  Adeno-associated virus isolate rh.54 capsid protein VP1 (cap) gene, complete cds  Adeno-associated virus isolate rh.37R2 capsid protein VP1 gene, partial cds  Non-human primate Adeno-associated virus isolate AAVrh.35 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.36 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.37 capsid protein (VP1) gene, complete cds  Non-human primate Adeno-associated virus isolate AAVrh.8 capsid protein (VP1) gene, complete cds  Adeno-associated virus isolate rh.8R capsid protein VP1 gene, partial cds  Adeno-associated virus isolate rh.55 capsid protein VP1 (cap) gene, complete	2442 2307 2257 2257 2252 2246 2244 2242 2235	2827 2307 2257 2257 2252 2246 2244 2235	73% 50% 50% 50% 50%	0.0 0.0 0.0 0.0 0.0	84% 85% 85% 85% 85%	

	gene, complete cds				
AY530561.1	Adeno-associated virus isolate rh.48 capsid protein VP1 (cap) gene, compl cds		2191 5	0% 0.0	84%
AY530571.1	Adeno-associated virus isolate rh.60 capsid protein VP1 (cap) gene, compl cds		2185 5	0.0	84%
EU368922.1	Adeno-associated virus isolate rh.46 capsid protein VP1 gene, partial cds	2167	2167 5	0.0	84%
AY530560.1	Adeno-associated virus isolate rh.43 capsid protein VP1 (cap) gene, compl cds		2167 5	0% 0.0	84%
AY530573.1	Adeno-associated virus isolate rh.62 capsid protein VP1 (cap) gene, compl cds		2163 5	0% 0.0	84%
AY243006.1	Non-human primate Adeno-associated visolate AAVrh.22 capsid protein (VP1 gene, complete cds		2161 5	0% 0.0	84%
EU368924.1	Adeno-associated virus isolate rh.64 capsid protein VP1 gene, partial cds	R1 2156	2156 5	0.0	84%
AY530574.1	Adeno-associated virus isolate rh.64 capsid protein VP1 (cap) gene, compl cds	2150 ete	2150 5	0% 0.0	84%
AY530562.1	Adeno-associated virus isolate rh.49 capsid protein VP1 (cap) gene, compl cds	2150 ete	2150 5	0.0	84%
AY530572.1	Adeno-associated virus isolate rh.61 capsid protein VP1 (cap) gene, compl cds		2145 5	0% 0.0	84%
AY530566.1	Adeno-associated virus isolate rh.53 capsid protein VP1 (cap) gene, compl cds	2145 ete	2145 5	0% 0.0	84%
AY530565.1	Adeno-associated virus isolate rh.52 capsid protein VP1 (cap) gene, compl cds		2145 5	0% 0.0	84%
AY530563.1	Adeno-associated virus isolate rh.50 capsid protein VP1 (cap) gene, compl cds	2145 ete	2145 5	0.0	84%
EU368919.1	Adeno-associated virus isolate rh.2R capsid protein VP1 gene, partial cds		2139 5	0.0	84%
AY530601.1	Adeno-associated virus isolate hu.39 capsid protein VP1 (cap) gene, compl cds		2134 5	0% 0.0	84%
AY530569.1	Adeno-associated virus isolate rh.57 capsid protein VP1 (cap) gene, compl cds		2122 5	0% 0.0	84%
AY530564.1	Adeno-associated virus isolate rh.51 capsid protein VP1 (cap) gene, compl cds		2122 5	0% 0.0	84%
AY243015.1	Non-human primate Adeno-associated v isolate AAVrh.10 capsid protein (VP1 gene, complete cds	)	2122 5		84%
AY243007.1	Non-human primate Adeno-associated v isolate AAVrh.2 capsid protein (VP1) gene, complete cds		2122 5	0.0	84%
EU368921.1	Adeno-associated virus isolate rh.39 capsid protein VP1 gene, partial cds	2111	2111 5	0.0	84%
AY530559.1	Adeno-associated virus isolate rh.40 capsid protein VP1 (cap) gene, compl		2111 5	0.0	84%

	cds				
AY243008.1	Non-human primate Adeno-associated virus isolate AAVrh.19 capsid protein (VP1) gene, complete cds	2108 21	08 50%	0.0	84%
AY243013.1	Non-human primate Adeno-associated virus isolate AAVrh.13 capsid protein (VP1) gene, complete cds	2106 21	06 50%	0.0	84%
EU368914.1	Adeno-associated virus isolate cy.5R4 capsid protein VP1 gene, partial cds	2100 21	00 50%	0.0	84%
AY530627.1	Adeno-associated virus isolate hu.67 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY530605.1	Adeno-associated virus isolate hu.42 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY530603.1	Adeno-associated virus isolate hu.40 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY530600.1	Adeno-associated virus isolate hu.37 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY530582.1	Adeno-associated virus isolate hu.17 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY530557.1	Adeno-associated virus isolate rh.25 capsid protein VP1 (cap) gene, complete cds	2095 20	95 50%	0.0	84%
AY243023.1	Non-human primate Adeno-associated virus isolate AAVbb.1 capsid protein (VP1) gene, complete cds	2095 20	95 50%	0.0	84%
AY243022.1	Non-human primate Adeno-associated virus isolate AAVbb.2 capsid protein (VP1) gene, complete cds	2095 20	95 50%	0.0	84%
EU368913.1	Adeno-associated virus isolate cy.1Rl capsid protein VPl gene, partial cds	2084 20	84 50%	0.0	84%
AY530626.1	Adeno-associated virus isolate hu.66 capsid protein VP1 (cap) gene, complete cds	2084 20	84 50%	0.0	84%
AY530621.1	Adeno-associated virus isolate hu.6 capsid protein VP1 (cap) gene, complete cds	2084 20	84 50%	0.0	84%
AY530570.1	Adeno-associated virus isolate rh.58 capsid protein VP1 (cap) gene, complete cds	2084 20	84 50%	0.0	84%
AY243018.1	Non-human primate Adeno-associated virus isolate AAVcy.4 capsid protein (VP1) gene, complete cds	2084 20	84 50%	0.0	84%
AY243017.1	Non-human primate Adeno-associated virus isolate AAVcy.5 capsid protein (VP1) gene, complete cds	2084 20	84 50%	0.0	84%
AY243016.1	Non-human primate Adeno-associated virus isolate AAVcy.6 capsid protein (VP1) gene, complete cds	2084 20	84 50%	0.0	84%
AY530604.1	Adeno-associated virus isolate hu.41 capsid protein VP1 (cap) gene, complete cds	2078 20	78 50%	0.0	84%
AY530558.1	Adeno-associated virus isolate rh.38 capsid protein VP1 (cap) gene, complete cds	2078 20	78 50%	0.0	84%

AY243019.1	Non-human primate Adeno-associated virus isolate AAVcy.3 capsid protein (VP1) gene, complete cds	2078	2078	50%	0.0	84%
AY530556.1	Adeno-associated virus isolate rh.1 capsid protein VP1 (cap) gene, complete cds	2063	2063	50%	0.0	84%
AY243012.1	Non-human primate Adeno-associated virus isolate AAVrh.14 capsid protein (VP1) gene, complete cds	2052	2052	50%	0.0	83%
AY243004.1	Non-human primate Adeno-associated virus isolate AAVrh.24 capsid protein (VP1) gene, complete cds	2052	2052	50%	0.0	83%
AY243009.1	Non-human primate Adeno-associated virus isolate AAVrh.18 capsid protein (VP1) gene, complete cds	2023	2023	50%	0.0	83%
AY243011.1	Non-human primate Adeno-associated virus isolate AAVrh.16 capsid protein (VP1) gene, complete cds	1980	1980	50%	0.0	83%
AY243005.1	Non-human primate Adeno-associated virus isolate AAVrh.23 capsid protein (VP1) gene, complete cds	1906	1976	46%	0.0	90%
EU368912.1	Adeno-associated virus isolate ch.5R capsid protein VP1 gene, partial cds	1829	1829	50%	0.0	82%
AY243021.1	Non-human primate Adeno-associated virus isolate AAVch.5 capsid protein (VP1) gene, complete cds	1829	1829	50%	0.0	82%
AF383623.1	Cloning vector pREX1LC, complete sequence		3202	44%	0.0	99%
AY530585.1	Adeno-associated virus isolate hu.2 capsid protein VP1 (cap) gene, complete cds	1777	1777	50%	0.0	81%
AY530602.1	Adeno-associated virus isolate hu.4 capsid protein VP1 (cap) gene, complete cds	1770	1770	50%	0.0	81%
AY530575.1	Adeno-associated virus isolate hu.1 capsid protein VP1 (cap) gene, complete cds	1764	1764	50%	0.0	81%

Alignments Select All Get selected sequences Distance tree of results Multiple alignment

```
>qb|AF063497.1|AF063497  Adeno-associated virus 1, complete genome
Length=4718
Score = 6575 bits (3560), Expect = 0.0 Identities = 4107/4368 (94%), Gaps = 49/4368 (1%)
Strand=Plus/Plus
         GTCCTGTATTAGAGGTCACGTGAGTG-TTTTGCGACATTTTGCGACACCATGTGGTCACG
     205
                                                        263
Sbjot
         CT-GGGTATTTAAGCCCGAGTGAGC-ACGCAGGGTCTCCATTTTGAAGCGGGAGGTTTGA
Query
     65
Sbjct
     264
         T.A.....A..T.G........G.--....A.......-.C..C..AA.....
                                                        321
     123
         ACGCGCAGCCGCCATGCCGGGGTTTTACGAGATTGTGATTAAGGTCCCCAGCGACCTTGA
                                                       182
Query
Sbjet
     322
         381
         CGGGCATCTGCCCGGCATTTCTGACAGC-TTTGTGAACTGGGTGGCCGAGAAGGAATGGG
                                                       241
Query
     183
Sbjot
     382
         440
         AGTTGCCGCCAGATTCTGACATGGATCTGAATCTGATTGAGCAGGCACCCCTGACCGTGG
                                                        301
Query
Sbjot
     441
          500
     302
         CCGAGAAGCTGCAGCGCGACTTTCT-GACGGAATGGCGCCGTGTGAGTAAGGCCCCGGAG
                                                        360
Query
                                                        559
Sbjet
     501
          361
         GCCCTTTTCTTTGTGCAATTTGAGAAGGGAGAGCTACTTCCACATGCACGTGCTCGTG
                                                        420
Query
Sbjct
     560
         619
         GAAACCACCGGGGTGAAATCCATGGTTTTGGGACGTTTCCTGAGTCAGATTCGCGAAAAA
     421
                                                        480
Query
Sbjat
                                                       679
         CTGATTCAGAGAATTTACCGCGGGATCGAGCCGACTTTGCCAAACTGGTTCGCGGTCACA
Query
     481
                                                        540
                                                        739
Sbjat
     680
         599
     541
         AAGAC-CAGAAATGGCGCCGGAGGCGGGAACAAGGTGGTGGATGAGTGCTACATCCCCAA
Query
Sbjet
                                                        798
     740
     600
         TTACTTGCTCCCCAAAACCCAGCCTGAGCTCCAGTGGGCGTGGACTAATATGGAACAGTA
                                                       659
Query
     799
                                                        858
Sbjct
         660
         TTTAAGCGCCTGTTTGAATCTCACGGAGCGTAAACGGTTGGTGGCGCAGCATCTGACGCA
                                                        719
Query
Sbjet
         918
                                                        777
     720
         CGTGTC-G-CAGACGCAGGAGCAGAACAAAGAGAATCAGAATCCCAATTCTGATGCGCCG
Query
Sbjet
     919
         976
         GTGATCAGATCAAAAACTTCAGC-CAGGTACATGGAGCTGGTCGGGTGGCTCGTGGACAA
Query
     778
                                                        836
Sbjct
     977
         1034
     837
         GGGG-ATTACCTCGGAGAAGCAGTGGATCCAGGAGGACCAGGCCTCATACATCTCCTTCA
                                                        895
Query
                                                        1094
Sbjct
     1035
         896
         ATGCGGCCTCCAACTCGCGGTCCCAAATCAAGGCTGCCT-TGGACAATGCGGGAAAGATT
                                                        954
Query
Sbjet
     1095
         1153
     955
         ATGAGC-CTGACTAAAACCGCCCCGACTACCTGGTGGGCCAGCAGC-CCG-TGGAGGAC
                                                       1011
Query
Sbict
         ...-..G.....C...T....G.........A....-...C..T...CCC.C....
```

Query Sbjat	1012 1211	ATTTCCAGCAATCGGATTTATAAAATTTTGGAACTAAACGGGTACGATCCCCAATATGAAA.CCCCCGCCC	1069 1268
Query <b>Sbjct</b>	1070 1269	-CGGCTTCCGTCTTTCTGGGATGGG-CCACGAAAAAGTTCGGCAAGAGGAACACCATCTG	1127 1326
Query Sbjct	1128 1327	GCTGTTTGGGCCTGCAACTACCGGG-AAGACCAACATCGCGGAGGCCATAGCCCACACTG	1186 1385
Query <b>Sbjct</b>	1187 1386	TGCCCTTCTACGGGTGCGTAAACTGGACCAATGAGAACTTTCCCTTCAACGACTGTGTCG	1246 1445
Query <b>Sbjct</b>	1247 1446	ACAAGATGGTGATCTGGTGGGAGGGGGAAGATGACCGCCAAGGTCGTGGAGTCGGCCA	1306 1505
Query <b>Sbjot</b>	1307 1506	AAGCCATTCTGGGAGGAAGCAAGGTGCGCGTGGACCAGAAA-TGCAAGTCCTCGGCCCAG.GGGC	1365 1564
Query <b>Sbjct</b>	1366 1565	ATAGACCCGACTCCCGTGATCGTCACCTCCAACACCAACATGTGCGCCGTGATTGACGGG	1425 1624
Query <b>Sbjct</b>	1426 1625	AAC-TCAACGACCTTCGAACACCAGCAGCCGTTGCAAGACCGGATGTTCAAATTTGAACTAGCG	1484 1683
Query Sbjct	1485 1684	CACCCGCCGTCTGGATCATGACTTTGGGAAGGTCACCAAGCAGGAAGTCAAAGACTTTTTG	1544 1743
Query Sbjct	1545 1744	CCGGTGGGCAAAGGATCACGTGGTTGAGGTGGAGCATGAATTCTACGTCAAAAAGGGTGG	1604 1803
Query Sbjct	1605 1804	AGCCAAGAAAAGACCCGCCCCAG-TGACGCAGATATAAGTGAGCCCAAACGGGTGC-GCC	1662 1861
Query Sbjct	1663 1862	GAGTCAGTTGCGCAGCCATCGACGTCAGACGCGG-AAGCTTCGATCAACTACGCAGACCCCCG.T	1719 1921
Query Sbjct	1720 1922	AGGTACCAAAACAAATGTTCTCGTCACGCGGGCATGCTTCAGATGCTGTTTCCCTGCAAG	1779 1981
Query Sbjct	1780 1982	ACATGCGAGAGAATGAATCAGAATTTCAACATTTGCTTCACGCACG	1839 2041
Query Sbjct	1840 2042	TCAGAGTGCTTCCCCGGCGTGTCAGAATCTCAACCGGTCGTCAGAAAGAGACGTATCGG	1899 2101
Query Sbjct	1900 2102	AAACTCTGTGCCATTCATCTGCTGGGGCGGGCTCCCGAGATTGCTTGC	1959 2161
Query Sbjct	1960 2162	GATCTGGTCAACGTGGACCTGGATGACTGTGTTTCTGAGCAATAAATGACTTAAACCAGG	2019 2221
Query Sbjct	2020 2222	TATGGCTGCCGATGGTTATCTTCCAGATTGGCTCGAGGACAACCTCTCTGAGGGCATTCG	2079 2281
Query Sbjct	2080 2282	CGAGTGGTGGGACTTGAAACCTGGAGCCCCGAAGCCCAAAGCCAACCAGCAAAAGCAGGA	2139 2341
Query Sbjct	2140 2342	CGACGGCCGGGGTCTGGTGCTTCCTGGCTACAAGTACCTCGGACCCTTCAACGGACTCGA	2199 2401
Query Sbjct	2200 2402	CAAGGGGGAGCCCGTCAACGCGGCGGACGACGACCACGACCACGACAAGGCCTACGA	2259 2461
Query Sbjct	2260 2462	CCAGCAGCTCAAAGCGGGTGACAATCCGTACCTGCGGTATAACCACGCCGACGCCGAGTT	2319 2521
Query Sbjct	2320 2522	TCAGGAGCGTCTGCAAGAAGATACGTCTTTTGGGGGCAACCTCGGGCGAGCAGTCTTCCA	2379 2581
Query Sbjct	2380 2582	GGCCAAGAAGCGGGTTCTCGAACCTCTCGGTCTGGTTGAGGAAGGCGCTAAGACGGCTCC	2439 2641
Query Sbjct	2440 2642	TGGAAAGAACGTCCGGTAGAGCAGTCGCCACAAGAGCCAGACTCCTCCTCGGGCATCGG	2499 2701
Query Sbjct	2500 2702	CAAGACAGGCCAGCAGCCCGCTAAAAAAGAGACTCAATTTTGGTCAGACTGGCGACTCAGA	2559 2761
Query Sbjct	2560 2762	GTCAGTCCCCGATCCACAACCTCTCGGAGAACCTCCAGCAACCCCCGCTGCTGTGGGACC	2619 2821

Query	2620	TACTACAATGGCTTCAGGCGGTGGCGCACCAATGGCAGACAATAACGAAGGCGCCGACGG	2679
Sbjct	2822		2881
Query	2680	AGTGGGTAATGCCTCAGGAAATTGGCATTGCGATTCCACATGGCTGGGCGACAGAGTCAT	2739
Sbjct	2882		2941
Query	2740	CACCACCAGCACCCGCACCTGGGCCTTGCCCACCTACAATAACCACCTCTACAAGCAAAT	2799
Sbjct	2942		3001
Query	2800	CTCCAGTGCTTCAACGGGGGCCAGCAACGACAACCACTACTTCGGCTACAGCACCCCCTG	2859
Sbjct	3002		3061
Query	2860	GGGGTATTTTGATTTCAACAGATTCCACTGCCACTTTTCACCACGTGACTGGCAGCGACT	2919
Sbjct	3062		3121
Query	2920	CATCAACAACAATTGGGGATTCCGGCCCAAGAGACTCAACTTCAAACTCTTCAACATCCA	2979
Sbjct	3122		3181
Query	2980	AGTCAAGGAGGTCACGACGAATGATGGCGTCACAACCATCGCTAATAACCTTACCAGCAC	3039
Sbjct	3182		3241
Query	3040	GGTTCAAGTCTTCTCGGACTCGGAGTACCAGCTTCCGTACGTCCTCGGCTCTGCGCACCA	3099
Sbjct	3242		3301
Query	3100	GGGCTGCCTCCGTTCCCGGCGGACGTGTTCATGATTCCGCAATACGGCTACCTGAC	3159
Sbjct	3302		3361
Query	3160	GCTCAACAATGGCAGCCAAGCCGTGGGACGTTCATCCTTTTACTGCCTGGAATATTTCCC	3219
Sbjct	3362		3421
Query	3220	TTCTCAGATGCTGAGAACGGGCAACAACTTTACCTTCAGCTACACCTTTGAGGAAGTGCC	3279
Sbjct	3422		3481
Query	3280	TTTCCACAGCAGCTACGCGCACAGCCAGAGCCTGGACCGGCTGATGAATCCTCTCATCGA	3339
Sbjct	3482		3541
Query	3340	CCAATACCTGTATTACCTGAACAGAACTCAAAATCAGTCCGGAAGTGCCCAAAACAAGGA	3399
Sbjct	3542		3601
Query	3400	CTTGCTGTTTAGCCGTGGGTCTCCAGCTGGCATGTCTGTTCAGCCCAAAAACTGGCTACC	3459
Sbjct	3602		3661
Query	3460	TGGACCCTGTTATCGGCAGCAGCGCGTTTCTAAAACAAAAACAGACAACAACAACAACAA	3519
Sbjct	3662		3721
Query	3520	TTTTACCTGGACTGGTGCTTCAAAATATAACCTCAATGGGCGTGAATCCATCATCAACCC	3579
Sbjct	3722		3781
Query	3580	TGGCACTGCTATGGCCTCACACAAAGACGACGAAGACAAGTTCTTTCCCATGAGCGGTGT	3639
Sbjct	3782		3841
Query	3640	CATGATTTTTGGAAAAGAGAGCGCCGGAGCTTCAAACACTGCATTGGACAATGTCATGAT	3699
Sbjct	3842		3901
Query	3700	TACAGACGAAGAGAATTAAAGCCACTAACCCTGTGGCCACCGAAAGATTTGGGACCGT	3759
Sbjct	3902		3961
Query	3760	GGCAGTCAATTTCCAGAGCAGCACAGACCCTGCGACCGGAGATGTGCATGCTATGGG	3819
Sbjct	3962		4021
Query	3820	AGCATTACCTGGCATGGTGTGGCAAGATAGAGACGTGTACCTGCAGGGTCCCATTTGGGC	3879
Sbjct	4022		4081
Query	3880	CAAAATTCCTCACACAGATGGACACTTTCACCCGTCTCCTCTTATGGGCGGCTTTGGACT	3939
Sbjct	4082		4141
Query	3940	CAAGAACCCGCCTCCTCAGATCCTCATCAAAAACACGCCTGTTCCTGCGAATCCTCCGGC	3999
Sbjct	4142		4201
Query	4000	GGAGTTTTCAGCTACAAAGTTTGCTTCATTCATCACCCAATACTCCACAGGACAAGTGAG	4059
Sbjct	4202		4261
Query	4060	TGTGGAAATTGAATGGGAGCTGCAGAAAGAAAACAGCAAGCGCTGGAATCCCGAAGTGCA	4119
Sbjct	4262		4321
Query	4120	GTACACATCCAATTATGCAAAATCTGCCAACGTTGATTTTACTGTGGACAACAATGGACT	4179
Sbjct	4322		4381
Query	4180	TTATACTGAGCCTCGCCCCATTGGCACCCGTTACCTTACCCGTCCCCTGTAATTACGTGT	4239

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Sbjct
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Query
     4240
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                                                    4299
    4442
Sbjct
                                                   4501
    4300
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                                          4347
Query
    4502
Sbjct
                                           4549
>gb|DQ180604.1| Adeno-associated virus VR-195 Rep78 (rep78) and capsid protein
(cap) genes, complete cds
Length=4259
Score = 6312 bits (3418),
                   Expect = 0.0
Identities = 4002/4282 (93%), Gaps = 48/4282 (1%)
Strand=Plus/Plus
         TTTGCGACATTTTGCGACACCATGTGGTCACGCTGGGTATTTAAGCCCGAGTGAGC-ACG
Ouerv
                                                    59
Sbjct
         92
        CAGGGTCTCCATTTTGAAGCGGGAGGTTTGAACGCGCAGCCGCCATGCCGGGGTTTTACG
                                                   151
Query
Sbjet
    60
                                                   118
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                                                    210
Query
                                                   177
Sbjet
    119
        TTTGTGAACTGGGTGGCCGAGAAGGAATGGGAGTTGCCGCCAGATTCTGACATGGATCTG
                                                    270
Query
    178
                                                    237
Sbjct
         Query
     271
        AATCTGATTGAGCAGGCACCCCTGACCGTGGCCGAGAAGCTGCAGCGCGACTTTCT-GAC
                                                    329
                                                    297
Sbjet
    238
     330
        GGAATGGCGCCGTGTGAGTAAGGCCCCGGAGGCCCTTTTCTTTGTGCAATTTGAGAAGGG
                                                    389
Query
Sbjct
    298
         356
        AGAGAGCTACTTCCACATGCACGTGCTCGTGGAAACCACCGGGGTGAAATCCATGGTTTT
                                                    449
Query
    390
Sbjct
    357
        416
        GGGACGTTTCCTGAGTCAGATTCGCGAAAAACTGATTCAGAGAATTTACCGCGGGATCGA
                                                   509
Query
     450
Sbjot
    417
         ...C..C..T........A.G..C..G...G.G....CC..C.......
                                                    476
    510
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                                                   568
Query
Sbjet
    477
                                                    535
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     569
                                                   628
Query
Sbjct
     536
         595
         {\tt TCCAGTGGGCGTGGACTAATATGGAACAGTATTTAAGCGCCTGTTTGAATCTCACGGAGC}
                                                   688
    629
Query
Sbjet
    596
         655
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Query
    689
                                                    746
Sbjet
    656
         713
     747
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                                                    805
Query
Sbjet
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        772
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Query
    806
                                                   864
Sbjct
     773
         831
        CAGGAGGACCAGGCCTCATACATCTCCTTCAATGCGGCCTCCAACTCGCGGTCCCAAATC
                                                   924
Query
    865
Sbjct
    832
         891
    925
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                                                   982
Query
Sbjet
    892
         949
Query
    983
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                                                   1040
    950
                                                   1007
Sbjct
         1041
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                                                   1096
Query
    1008
                                                   1064
Sbjet
         1097
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                                                   1155
Query
Sbjet
    1065
        1122
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    1156
                                                   1215
Query
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    1216
Sbjot
        1242
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Query Sbjct	1276 1243	AAGATGACCGCCAAGGTCGTGGAGTCGGCCAAAGCCATTCTGGGAGGAAGCAAGGTGCGC	1335 1302
Query Sbjct	1336 1303	GTGGACCAGAAA-TGCAAGTCCTCGGCCCAGATAGA-CCCGACTCCCGTGATCGTCACCT	1393 1360
Query Sbjct	1394 1361	CCAACACCAACATGTGCGCCGTGATTGACGGGAAC-TCAACGACCTTCGAACACCAGCAG	1452 1419
Query Sbjct	1453 1420	CCGTTGCAAGACCGGATGTTCAAATTTGAACTCACCCGCCGTCTGGATCATGACTTTGGG	1512 1479
Query Sbjat	1513 1480	AAGGTCACCAAGCAGGAAGTCAAAGACTTTTTCCGGTGGGCAAAGGATCACGTGGTTGAGGA	1572 1539
Query Sbjct	1573 1540	GTGGAGCATGAATTCTACGTCAAAAAGGGTGGAGCCAAGAAAAGACCCGCCCCAG-TGACG	1631 1598
Query Sbjct	1632 1599	CGCAGATATAAGTGAGCCCAAACGGGTGC-GCGAGTCAGTTGCGCAGCCATCGACGTCAGGACGC.TCCCCG.T	1690 1657
Query Sbjct	1691 1658	ACGCGG-AAGCTTCGATCAACTACGCAGACAGGTACCAAAACAAATGTTCTCGTCACG	1747 1717
Query Sbjct	1748 1718	CGGGCATGCTTCAGATGCTGTTTCCCTGCAAGACATGCGAGAGAATGAAT	1807 1777
Query Sbjct	1808 1778	ACATTTGCTTCACGCACGGGACGAGAGACTGTTCAGAGTGCTTCCCCGGCGTGTCAGAAT	1867 1837
Query Sbjct	1868 1838	CTCAACCGGTCGTCAGAAAGAGGACGTATCGGAAACTCTGTGCCATTCATCATCTGCTGG	1927 1897
Query Sbjct	1928 1898	GGCGGGCTCCCGAGATTGCTTGCTCGGCCTGCGATCTGGTCAACGTGGACCTGGATGACT	1987 1957
Query Sbjct	1988 1958	GTGTTTCTGAGCAATAAATGACTTAAACCAGGTATGGCTGCCGATGGTTATCTTCCAGAT	2047 2017
Query Sbjct	2048 2018	TGGCTCGAGGACAACCTCTCTGAGGGCATTCGCGAGTGGTGGGACTTGAAACCTGGAGCC	2107 2077
Query Sbjct	2108 2078	CCGAAGCCCAAAGCCAACCAGCAAAAGCAGGACGACGGCCGGGGTCTGGTGCTTCCTGGC	2167 2137
Query Sbjct	2168 2138	TACAAGTACCTCGGACCCTTCAACGGACTCGACAAGGGGGAGCCCGTCAACGCGGCGGAC	2227 2197
Query Sbjct	2228 2198	GCAGCGGCCCTCGAGCACGACAAGGCCTACGACCAGCAGCTCAAAGCGGGTGACAATCCG	2287 2257
Query Sbjct	2288 2258	TACCTGCGGTATAACCACGCCGACGCCGAGTTTCAGGAGCGTCTGCAAGAAGATACGTCT	2347 2317
Query Sbjct	2348 2318	$\verb TTTGGGGGCAACCTCGGGCGAGCAGTCTTCCAGGCCAAGAAGCGGGTTCTCGAACCTCTC  \\ \verb TTTGGGGGGCAACCTCTCCAGGCCAAGAAGCGGGTTCTCGAACCTCTC  \\ \verb TTTGGGGGGGTCAAGAAGCGGGGTTCTCGAACCTCTCCAGGCCAAGAAGCGGGTTCTCGAACCTCTCCAGGCCAAGAAGCGGGTTCTCGAACCTCTCCAGGCCAAGAAGCGGGGTTCTCGAACCTCTCCAGGCCAAGAAGCGGGGTTCTCGAACCTCTCCAGGCCAAGAAGAAGCGGGGTTCTCGAACCTCTCCAGGCCAAGAAGCAGAAGCAGAAGCAGAAGCAGAAGCAGAAGA$	2407 2377
Query Sbjct	2408 2378	GGTCTGGTTGAGGAAGGCGCTAAGACGGCTCCTGGAAAGAAA	2467 2437
Query Sbjct	2468 2438	CCACAAGAGCCAGACTCCTCCTCGGGCATCGGCAAGACAGGCCAGCCA	2527 2497
Query Sbjct	2528 2498	AGACTCAATTTTGGTCAGACTGGCGACTCAGAGTCAGTCCCCGATCCACAACCTCTCGGA	2587 2557
Query Sbjct	2588 2558	GAACCTCCAGCAACCCCCGCTGCTGTGGGACCTACTACAATGGCTTCAGGCGGTGGCGCA	2647 2617
Query Sbjct	2648 2618	CCAATGGCAGACAATAACGAAGGCGCCGACGGAGTGGGTAATGCCTCAGGAAATTGGCAT	2707 2677
Query Sbjct	2708 2678	TGCGATTCCACATGGCTGGGCGACAGAGTCATCACCACCAGCACCCGCACCTGGGCCTTG	2767 2737
Query Sbjct	2768 2738	CCCACCTACAATAACCACCTCTACAAGCAAATCTCCAGTGCTTCAACGGGGGCCAGCAAC	2827 2797
Query Sbjct	2828 2798	GACAACCACTACTTCGGCTACAGCACCCCCTGGGGGTATTTTGATTTCAACAGATTCCAC	2887 2857

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2947
     2888
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Query
Sbjet
     2858
          2917
                                                         3007
Query
     2948
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Sbjet
     2918
                                                         2977
         3008
         GTCACAACCATCGCTAATAACCTTACCAGCACGGTTCAAGTCTTCTCGGACTCGGAGTAC
                                                         3067
Ouerv
Sbjct
     2978
                                                         3037
Query
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                                                         3127
Sbjct
     3038
                                                         3097
     3128
                                                         3187
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     3098
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     3188
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Sbjct
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                                                         3307
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     3308
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                                                         3367
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Sbjct
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                                                         3337
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                                                         3427
     3368
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Sbjct
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Query
Sbjct
     3398
                                                         3457
     3488
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Query
Sbjet
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         3548
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                                                         3607
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Sbjct
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                                                         3577
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                                                         3667
Query
Sbjct
     3578
                                                         3637
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     3668
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Sbjct
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     3728
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                                                         3787
Sbjct
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Sbjet
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     3848
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Sbjct
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                                                         3967
Query
Sbjet
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                                                         3937
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     3968
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Sbjct
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                                                         4087
Query
Sbjct
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                                                         4057
     4088
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                                                         4147
Ouerv
Sbjct
     4058
                                                         4117
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                                                         4207
     4148
Query
Sbjct
     4118
         4177
                                                         4267
     4208
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Query
Sbjct
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         4268
         GTTGAACTTTGGTCTCCTGTCC 4289
Sbjct
         >qb|AF028704.1|AF028704 Adeno-associated virus 6, complete genome
Length=4683
Score = 6270 bits (3395), Expect = 0.0
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Strand=Plus/Plus

Identities = 4054/4370 (92%), Gaps = 53/4370 (1%)